

## **ABSTRACT**

2 A process utilizing PET as a reactive constituent to manufacture other  
3 polymers containing the pre-condensed moieties by the rapid transesterification of  
4 the condensation polymer with a pre-made modifying polymer containing the desired  
5 mix of other monomers. The process involves as a first step the manufacture of a  
6 modifying polymer containing the desired mix of acids and alcohols to a specific  
7 molecular weight such molecular weight dependent on the desired final level of  
8 utilized condensation polymer and the finished molecular weight. The second step  
9 of the process involves the rapid buildup of molecular weight and/or polymer  
10 uniformity by the rapid transesterification of the condensation polymer with the  
11 modifying polymer. The second step can be performed in any suitable vessel  
12 including an extrusion line. The process has the advantage of greatly reduced cycle  
13 times over other condensation polymer utilization processes such as the recycling of  
14 PET into other materials.

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